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John Bigham, Lin Du

July 2003 Proceedings of the second international joint conference on Autonomous agents and multiagent systems

 Full text available: [pdf\(1.27 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A cooperative negotiation approach for the real-time control of cellular network coverage is described. The performance of the whole cellular network is improved by contracting and shaping the antenna radiation pattern around traffic "hot spots" and expanding adjacent cell coverage to fill in the coverage loss. The paper shows that the local area real time cooperative negotiation between base stations leads to a near global optimal coverage agreement which is reached in the context of the whole ...

Keywords: cooperative negotiation, load balancing, multi-agent systems, real-time systems

182 [Physical interface: TAG: a Tiny AGgregation service for ad-hoc sensor networks](#)

Samuel Madden, Michael J. Franklin, Joseph M. Hellerstein, Wei Hong

December 2002 ACM SIGOPS Operating Systems Review, Volume 36 Issue SI

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We present the Tiny AGgregation (TAG) service for aggregation in low-power, distributed, wireless environments. TAG allows users to express simple, declarative queries and have them distributed and executed efficiently in networks of low-power, wireless sensors. We discuss various generic properties of aggregates, and show how those properties affect the performance of our in network approach. We include a performance study demonstrating the advantages of our approach over traditional centralize ...

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